



437 AAGCTTCTAC CCTAGTCTGG TGCTACACTT ACATTGCTTA CATCCAAGTG TGGTTATTTTC
1377 TGTGGCTCCT GTTATAACTA TTATAGCACC AGGTCTATGA CCAGGAGAAT TAGACTGGCA
1317 TTAAATCAGA ATAAGAGATT TTGCACCTGC AATAGACCTT ATGACACCTA ACCAACCCCA
-1257 TTATTTACAA TTAAACAGGA ACAGAGGGAA TACTTTATCC AACTCACACA AGCTGTTTTTC
-1197 CTCCCAGATC CATGCTTTTT TGCGTTTATT ATTTTTTAGA GATGGGGGCT TCACTATGTT
-1137 GCCCACACTG GACTAAAACT CTGGGCCTCA AGTGATTGTC CTGCCTCAGC CTCTGAATA
-1077 GCTGGGACTA CAGGGGCATG CCATCACACC TAGTTCATTT CCTCTATTTA AAATATACAT
-1017 GGCTTAAACT CCAACTGGGA ACCCAAACA TTCATTTGCT AAGAGTCTGG TGTTCACCA
-957 CCTGAAGTAG GCTGGCCACA GGAATTATAA AAGCTGAGAA ATTCTTTAAT AATAGTAACC
-897 AGGCAACATC ATTGAAGGCT CATATGTAAA AATCCATGCC TTCCTTTCTC CCAATCTCCA
-837 TTCCCAAACCT TAGCCACTGG TTCTGGCTGA GGCCTTACGC ATACCTCCCG GGGCTTGCAC
-777 ACACCTTCTT CTACAGAAGA CACACCTTGG GCATATCCTA CAGAAGACCA GGCTTCTCTC
-717 TGGTCCTTGG TAGAGGGCTA CTTTACTGTA ACAGGGCCAG GGTGGAGAGT TCTCTCCTGA
-657 AGCTCCATCC CCTCTATAGG AAATGTGTTG ACAATATTCA GAAGAGTAAG AGGATCAAGA
-597 CTTCTTTGTG CTCAAATACC ACTGTTCTCT TCTCTACCCT GCCCTAACCA GGAGCTTGTC
-537 ACCCCAAACT CTGAGGTGAT TTATGCCTTA ATCAAGCAA CTTCCCTCTT CAGAAAAGAT
-477 GGCTCATTTT CCCTCAAAAG TTGCCAGGAG CTGCCAAGTA TTCTGCCAAT TCACCTGGA
-417 GCACAATCAA CAAATTCAGC CAGAACACAA CTACAGCTAC TATTAGAACT ATTATTATTA
-357 ATAAATTCTT CTCCAAATCT AGCCCTTGA CTTCCGATTT CACGATTTCT CCCTTCCTCC
-297 TAGAACTTG ATAAGTTTCC CGCGCTTCCC TTTTCTAAG ACTACATGTT TGTCACTTA
-237 TAAAGCAAAG GGGTGAATAA ATGAACCAA TCAATAACTT CTGGAATATC TGCAACAAC
-177 AATAATATCA GCTATGCCAT CTTTCACTAT TTTAGCCAGT ATCGAGTTGA ATGAACATAG
-117 AAAAATACAA AACTGAATTC TTCCCTGTAA ATTCCCGTT TTGACGACGC ACTTGTAGCC
-57 ACGTAGCCAC GCCTACTTAA GACAATTACA AAAGGCGAAG AAGACTGACT CAGGCTTAAG
4 CTGCCAGCCA GAGAGGGAGT CATTTCAATTG GCGTTTGAGT CAGCAAAGGT ATTGTCCTCA
64 CATCTCTGGC TATTAAAGTA TTTTCTGTTG TTGTTTTTCT CTTTGGCTGT TTTCTCTCAC
124 ATTGCCTTCT CTAAAGCTAC AGTCTCTCCT TTCTTTTCTT GTCCCTCCCT GGTGTTGGTAT
184 GTGACCTAGA ATTACAGTCA GATTTCAGAA AATGATTCTC TCATTTTGCT GATAAGGACT
244 GATTGTTTTT ACTGAGGGAC GGCAGAACTA GTTTCCTATG AGGGCATGGG TGAATACAAC
304 TGAGGCTTCT CATGGGAGGG AATCTCTACT ATCCAAAATT ATTAGGAGAA AATTGAAAAT
364 TTCCAACCTT GTCTCTCTCT TACCTCTGTG TAAGGCAAAT ACCTTATTCT TGTGGTGT
424 TTGTAACCTC TTCAAACCTT CATTGATTGA ATGCCTGTTT TGGCAATACA TTAGGTGGG
484 CACATAAGGA ATACCAACAT AAATAAAACA TTCTAAAAGA AGTTTACGAT CTAATAAAGG
544 AGACAGGTAC ATAGCAAACCT AATTCAAAGG AGCTAGAAGA TGGAGAAAAT GCTGAATGTG
604 GACTAAGTCA TTCAACAAAG TTTTCAGGAA GCACAAAGAG GAGGGGCTCC CCTCACAGAT
664 ATCTGGATTA GAGGCTGGCT GAGCTGATGG TGGCTGGTGT TCTCTGTTGC AGAAGTCAAG
724 ATGGCCAAAG TTCCAGACAT GTTTGAAGAC CTGAAGAACT GTTACAGGTA AGGAATAAGA
784 TTTATCTCTT GTGATTTAAT GAGGGTTTCA AGGCTCACCA GAATCCAGCT AGGCATAACA
844 GTGGCCAGCA TGGGGGCAGG CCGGCAGAGG TTGTAGAGAT GTGTACTAGT CCTGAAGTCA
904 GAGCAGGTTC AGAGAAGACC CAGAAAAACT AAGCATTCAG CATGTTAAAC TGAGATTACA
964 TTGGCAGGGA GACCGCCATT TTAGAAAAAT TATTTTGTAG GTCTGCTGAG CCCTACATGA
1024 ATATCAGCAT CAACTTAGAC ACAGCCTCTG TTGAGATCAC ATGCCCTGAT ATAAGAATGG
1084 GTTTTACTGG TCCATTCTCA GGAAAACTTG ATCTCATTC A GGAACAGGAA ATGGCTCCAC
1144 AGCAAGCTGG GCATGTGAAC TCACATATGC AGGCAAATCT CACTCAGATG TAGAAGAAAG
1204 GTAAATGAAC ACAAAGATAA AATTACGGAA CATATTAAAC TAACATGATG TTTCCATTAT
1264 CTGTAGTAAA TACTAACACA AACTAGGCTG TCAAAATTTT GCCTGGATAT TTTACTAAGT
1324 ATAAATTATG AAATCTGTTT TAGTGAATAC ATGAAAGTAA TGTGTAACAT ATAATCTATT
1384 TGGTTAAAT AAAAAGGAAG TGCTTCAAAA CCTTTCTTTT CTCTAAAGGA GCTTAACATT
1444 CTTCCCTGAA CTTCAATTAA AGCTCTTCAA TTTGTAGACC AAGTCCAATT TTTACAGATA
1504 AAGCACAGGT AAAGCTCAA GCCTGTCTTG ATGACTACTA ATTCCAGATT AGTAAGATAT

Fig. 1

1564	GAATTACTCT	ACCTATGTGT	ATGTGTAGAA	GTCCTTAAAT	TTCAAAGATG	ACAGTAATGG
1624	CCATGTGTAT	GTGTGTGACC	CACAACATATC	ATGGTCATTA	AAGTACATTG	GCCAGAGACC
1684	ACATGAAATA	ACAACAATTA	CATTCTCATC	ATCTTATTTT	GACAGTGAAA	ATGAAGAAGA
1744	CAGTTCCTCC	ATTGATCATC	TGTCTCTGAA	TCAGGTAAGC	AAATGACTGT	AATTCTCATG
1804	GGACTGCTAT	TCTTACACAG	TGGTTTCTTC	ATCCAAAGAG	AACAGCAATG	ACTTGAATCT
1864	TAAATACTTT	TGTTTTACCC	TCACTAGAGA	TCCAGAGACC	TGTCTTTCAT	TATAAGTGAG
1924	ACCAGCTGCC	TCTCTAAACT	AATAGTTGAT	GTGCATTGGC	TTCTCCCAGA	ACAGAGCAGA
1984	ACTATCCCAA	ATCCCTGAGA	ACTGGAGTCT	CCTGGGGCAG	GCTTCATCAG	GATGTTAGTT
2044	ATGCCATCCT	GAGAAAGCCC	CGCAGGCCGC	TTCACCAGGT	GTCTGTCTCC	TAACGTGATG
2104	TGTTGTGGTT	GTCTTCTCTG	ACACCAGCAT	CAGAGGTTAG	AGAAAGTCTC	CAAACATGAA
2164	GCTGAGAGAG	AGGAAGCAAG	CCAGCTGAAA	GTGAGAAGTC	TACAGCCACT	CATCAATCTG
2224	TGTTATTGTG	TTTGGAGACC	ACAAATAGAC	ACTATAAGTA	CTGCCAGTA	TGTCTTCAGT
2284	ACTGGCTTTA	AAAGCTGTCC	CCAAAGGAGT	ATTTCTAAAA	TATTTTGAGC	ATTGTTAAGC
2344	AGATTTTAA	CCTCCTGAGA	GGGAACATA	TGGAAAGCTA	CCACTACTA	CAATCATTGT
2404	TAACCTATTT	AGTTACAACA	TCTCATTTTT	GAGCATGCAA	ATAAATGAAA	AAGTCTTCCT
2464	AAAAAATCA	TCTTTTTATC	CTGGAAGGAG	GAAGGAAGGT	GAGACAAAAG	GGAGAGAGGG
2524	AGGGAAGCCT	AATGAAACAC	CAGTTACCTA	AGACCAGAAT	GGAGATCCTC	CTCACTACCT
2584	CTGTTGAATA	CAGCACCTAC	TGAAAGAACT	TTCATTCCCT	GACCATGAAC	AGCCTCTCAG
2644	CTTCTGTTTT	CCTTCCTCAC	AGAAATCCTT	CTATCATGTA	AGCTATGGCC	CACTCCATGA
2704	AGGCTGCATG	GATCAATCTG	TGTCTCTGAG	TATCTCTGAA	ACCTCTAAAA	CATCCAAGCT
2764	TACCTTCAAG	GAGAGCATGG	TGGTAGTAGC	AACCAACGGG	AAGGTCTCTGA	AGAAGAGACG
2824	GTTGAGTTTA	AGCCAATCCA	TCCTGATGTA	TGACCTGGAG	GCCATCGCCA	ATGACTCAGA
2884	GGAAGGTAAG	GGGTCAAGCA	CAATAATATC	TTTCTTTTAC	AGTTTTAAGC	AAGTAGGGAC
2944	AGTAGAATTT	AGGGGAAAAT	TAAACGTGGA	GTCAGAATAA	CAAGAAGACA	ACCAAGCATT
3004	AGTCTGGTAA	CTATACAGAG	GAAAATTAAT	TTTTATCCTT	CTCCAGGAGG	GAGAAATGAG
3064	CAGTGGCCTG	AATCGAGAAT	ACTTGCTCAC	AGCCATTATT	TCTTAGCCAT	ATTGTAAAGG
3124	TCGTGTGACT	TTTAGCCTTT	CAGGAGAAAG	CAGTAATAAG	ACCACTTACG	AGCTATGTTT
3184	CTCTCATACT	AACATATGCCT	CCTTGGTCAT	GTTACATAAT	CTTTTCGTGA	TTCAGTTTCC
3244	TCTACTGTAA	AATGGAGATA	ATCAGAATCC	CCCCTCAT	GGATTGTTGT	AAAGATTAAG
3304	AGTCTCAGGC	TTTACAGACT	GAGCTAGCTG	GGCCCTCCTG	ACTGTTATAA	AGATTAAATG
3364	AGTCAACATC	CCCTAACTTC	TGGACTAGAA	TAATGTCTGG	TACAAAGTAA	GCACCCAATA
3424	AATGTTAGCT	ATTACTATCA	TTATTATTAT	TATTTTATTT	TTTTTTTTTTG	AGATGGAGTC
3484	TGGCTCTGTC	ACCCAGGCTG	GAGTGCAGTG	GCACAATCTC	GGCTCACTGC	AAGCTCTGCC
3544	TCCTGGGTTT	ATGCCATTCT	CCTGCCCTCAG	CCTCCCGAGT	AAGCTGGGAA	TACAGGCACC
3604	CGCCACTGTT	CCCGGCTAAT	TTTTTGTATT	TTTAGTAGAG	ACGGAGTTTC	ACCGTGGTCT
3664	CCATCTCCTC	GTGATCCACC	CACCTTGGCC	TCCCAAAGTG	CCGGGATTAC	AGGCGTGAGC
3724	CACCGCGCCC	GGCCTATTAT	TATTATTATT	ACTACTACTA	CTACCTATAT	GAATACTACC
3784	AGCAATACTA	ATTTATTAAT	GACTGGATTA	TGTCTAAACC	TCACAAGAAT	CCTACCTTCT
3844	CATTTTACAT	AAAAGGAAAC	TAAGCTCATT	GAGATAGGTA	AACTGCCCAA	TGGCATACAT
3904	CTGTAAGTGG	GAGAGCCTCA	AATCTAATTC	AGTTCTACCT	GAGTAAAAAA	ATCATGGTTT
3964	CTCCTCCATC	CCTTTACTGT	ACAAGCCTCC	ACATGAACATA	TAAACCCAAT	ATTCTGTGTT
4024	TTAAGATAAT	ACCTAAGCAA	TAACGCATGT	TCACCTAGAA	GGTTTTAAAA	TGTAACAAAA
4084	TATAAGAAAA	TAAAAATCAC	TCATATCGTC	AGTGAGAGTT	TACTACTGCC	AGCACTATGG
4144	TATGTTTCCT	TAAAATCTTT	GCTATACACA	TACCTACATG	TGAACAAATA	TGTCTAACAT
4204	CAAGACCACA	CTATTTACAA	CTTTATATCC	AGCTTTTCTT	ACTTAGCAAT	GTATTGAGGA
4264	CATTTTAGAG	TGCCCCGTTTT	TCACCATTAT	AAGCAATGCA	ACAATGAACA	TCTGTATAAA
4324	TAAATATTCA	TTTCTCTCAC	CCTTTATTTT	CTTAGAATAT	ATTCCCTAGAA	GTAGAATTTT
4384	CCAGAGCCAT	GAGGATTTGT	GACGCTATTG	ATATGTGCCA	CTTTGCACTC	TCTGTGACAT
4444	ATATAATTAT	TTTAAATGCA	TTTATTTTTT	TCTCAGAGTG	CATTTCGTTG	AAAACATAGA
4504	CGGGAAATAC	TGGTAGTCTT	CCTTGTCAGT	TAGAAACACC	CAACAATGA	AAAATGAAAA
4564	AGTTGCACAA	ATAGTCTCTA	AAAACAATGA	AACTATTGCC	TGAGGAATTG	AAGTTTAAAA
4624	AGAAGCACAT	AAGCAACAAC	AAGGATAATC	CTAGAAAACC	AGTTCTGCTG	ACTGGGTGAT
4684	TTCACTTCTC	TTTGCTTCCT	CATCTGGATT	GGAATATTCC	TAATACCCCC	TCCAGAACATA

FIG. 1A

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4744 TTTTCCCTGT TTGTACTAGA CTGTGTATAT CATCTGTGTT TGTACATAGA CATTAATCTG
4804 CACTTGTGAT CATGGTTTTA GAAATCATCA AGCCTAGGTC ATCACCTTTT AGCTTCCTGA
4864 GCAATGTGAA ATACAACCTT ATGAGGATCA TCAAATACGA ATTCATCCTG AATGACGCCC
4924 TCAATCAAAG TATAATTCTG GCCAATGATC AGTACCTCAC GGCTGCTGCA TTACATAATC
4984 TGGATGAAGC AGGTACATTA AAATGGCACC AGACATTTCT GTCATCCTCC CCTCCTTTCA
5044 TTTACTTATT TATTTATTTT AATCTTTCTG CTTGCAAAAA ACATACCTCT TCAGAGTTCT
5104 GGGTTGCACA ATTCTTCCAG AATAGCTTGA AGCACAGCAC CCCCATAAAA ATCCCAAGCC
5164 AGGGCAGAAG GTTCAACTAA ATCTGGAAGT TCCACAAGAG AGAAGTTTCC TATCTTTGAG
5224 AGTAAAGGGT TGTGCACAAA GCTAGCTGAT GTACTACCTC TTTGGTTCTT TCAGACATTC
5284 TTACCCTCAA TTTTAAAACT GAGGAACTG TCAGACATAT TAAATGATTT ACTCAGATTT
5344 ACCCAGAAGC CAATGAAGAA CAATCACTCT CCTTTAAAAA GTCTGTTGAT CAAACTCACA
5404 AGTAACACCA AACCAGGAAG ATCTTTATTA TCTCTGATAA CATATTTGTG AGGCAAAACC
5464 TCCAATAAGC TACAAATATG GCTTAAAGGA TGAAGTTTAG TGTCCAAAAA CTTTATCAC
5524 ACACATCCAA TTTTCATGGC GGACATGTTT TAGTTTCAAC AGTATACATA TTTTCAAAGG
5584 TCCAGAGAGG CAATTTTGCA ATAAACAAGC AAGACTTTTT CTGATTGGAT GCACTTCAGC
5644 TAACATGCTT TCAACTCTAC ATTTACAAAT TATTTTGTGT TCTATTTTTC TACTTAATAT
5704 TATTTCTGCA ATTTTCCCAA TATTGACATC GTGTATGTAT TTGCCATTTT TAATATCACT
5764 AGACAATTCA ATCAGGTTGC TACGTTGGTC CTTGGGTTT ACTCTAAATA GCTTGATTGC
5824 AAATATCTTT GTATATATTA TTGTTTTTTC TCCTATCTTG TAATTTCTTT GAGCACATCC
5884 CAAAGAGGAA TGCCTAGATC AATGGGCACA AATAATTTGA CAGCTCTTAT TAAACATTAT
5944 TCTGTAAGTA AAAACTGAAC TACTTTTCAG TATCACTAGC AACATATGAG TGTATCAGCT
6004 TCCTAAACCC CTCCATGTTA GGTCAATTATG AACTTATGAT CTAACAAATT ACAGGGTCTT
6064 ATCCCACTAA TGAAATTATA AGAGATTCAA CACTTATTCA GCCCCGAAGG ATTCATTCAA
6124 CGTAGAAAAT TCTAAGAACA TTAACCAAGT ATTTACCTGC CTAGTGAGTG TGGAAGACAT
6184 TGTGAAGGAC ACAAAGATGT ATAGAATTCC ATTCTGACT TCCAGGTATT TACACCATAG
6244 GTGGGGACCT AACTACACAC ACACACACAC ACACACACAC ACACACACAC ACCATGCACA
6304 CACAATCTAC ATCAACACTT GATTTTATAC AAATACAATG AATTTACTTT CTTTTTGGTT
6364 CTTCTCTTCA CCAGTGAAAT TTGACATGGG TGCTTATAAG TCATCAAAGG ATGATGCTAA
6424 AATTACCGTG ATTCTAAGAA TCTCAAAAAC TCAATTGTAT GTGACTGCCC AAGATGAAGA
6484 CCAACCAGTG CTGCTGAAGG TCAGTTGTCC TTTGTCTCCA ACTTACCTTC ATTTACATCT
6544 CATATGTTTG TAAATAAGCC CAATAGGCAG ACACCTCTAA CAAGGTGACA CTGTCTCTTT
6604 TCCTTCCTAC CACAGCCCCC ACCTACCCAC CCCACTCCCA TTGATTCCAG AGGCGTGCCT
6664 AGGCAGGATC TATGAGAAAA TATAACAGAG AGTAAGAGGA AAATTACCTT CTTTCTTTTT
6724 CCTTCCCTG CCTGACCTTA TTCACCTCCC ATCCCAGAGC ATCCATTTAT TCCATTGATC
6784 TTTACTGACA TCTATTATCT GACCTACACA ATACTAGACA TTAGGACAAT GTGGCCTGCC
6844 TCCAAGAAAC TCAAATAAGC CAACTGAGAT CAGAGAGGAT TAATCACCTG CCAATGGGCA
6904 CAAAGCAACA AGCTGGGAGC CAAGTCCCAA AATGGGGCCT GCTGCTTCCA GTTCCCTCT
6964 CTCTGCATTG ATGTCAGCAT TATCCTTCGT CCCAGTCCTG TCTCCACTAC CACTTTCCCC
7024 CTCAAACACA CACACACACA ACAGCCTTAG ATGTTTTCTC CACTGATAAG TAGGTGACTC
7084 AATTTGTAAG TATATAATCC AAGACCTTCT ATTCCCAAGT AGAATTTATG TGCTGCCTG
7144 TGCTTTTCTA CCTGGATCAA GTGATGTCTA CAGAGTAGGG CAGTAGCTTC ATTCATGAAC
7204 TCATTCAACA AGCATTATTC ACTGAGAGCC TTGTATTTTT CAGGCATAGT GCCAACAGCA
7264 GTGTGGACAG TGGTGCATCA AAGCCTCTAG TCTCATAGAA CTTAGTCTTC TGGAGGATAT
7324 GGAAAACAGA CAACCCAAAC AACCACAAA AGAGCAAGAT GCTGCAAAAA AAAAAAAAT
7384 GAATAGGGTG CTAAGATAGA GAAAAGTGGG AGAGTGCTAT TTAGACAAAG TGGTAAAAAC
7444 AAAGCCCCTT GTGAGATGAG AGCTGCCGAC AGAGGGGGCG GGTATGGTT GTGGGTTTTT
7504 GGGTAGGACA TTCAGAGGAG GGGGCGGGTC GTGGTTGTGG GTTTTGGGT AGGACATTCA
7564 GAGGAGGGGG CGGGTCGTGG TTGTGGGTTT TTGGGTAGGA CATTGAGAG AGGGGGCGGG
7624 TCGTGGTTGT GGGTTTTTGG GTAGGACATT CAGAGGAGGG GGCGGGTCGT GGTGTGGGT
7684 TTTTGGGACA TTCAGAGGAG TCTGAATGCA CCCAGGCCA CAACTTCAAG ATGGTAAAGG
7744 ACAGCTCCAA GGATCAGAAG AAGCATTCCT GGAAGTGGG CATTTTGAGA AGGAGGAAAA
7804 ATATGCAGAG ACTAGTGCTT GCAGAGCTTG CATTTGGATT TCATTTGAGG TACAATGAAA
7864 ACCCATTAAT GGGTTTCACA CAGTGAATG GCCTGACCTC ACTTATATTT CCTAAAATAG

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FIG. 1B

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7924 AAAACAGATC AGAAGGAAGG CAATAGAGAA GCAGAAAGTC CAATGAGGAG GTTTCACAGC
7984 AGTCATGGGG GTGGGGTAAG GAAAAGAAGT GGAAAGAAAC AGACAGAATT GGGTTATATT
8044 TTGGAGATAG AACCAACAGA AGGAAGAGGA GAAACAACAT TTACTGAGAA GGGAAAAAGT
8104 AGGAGAGGAA TAGGTTTGGG AAATAAATCC TGCTGACATT GGAAACCCCA AGGAAGCCTC
8164 AAAAGTATAT TTACTTGCTT TAGATTTAAA AGAATAGGAA AGAAGCATCT CAACTTGGAA
8224 TTTGAAATCT ATTTTTCAT AAAAGTATTG TTAAATTCTA CTCATACTCA CAAGAAAAGT
8284 ACATTCTAAA GAGTATATTG AAAGAGTTTA CTGATATACT TAGGAATTTT GTGTGTATGT
8344 GTGTGTGTGT ATGTGTGTGT GTGTGTTTAA CCTTCAATTG TTGACTTAAA TACTGAGATA
8404 AATGTCATCT AAATGCTAAA TTGATTTCCC AAAGGTATGA TTTGTTCACT TGGAGATCAA
8464 AATGTTTAGG GGGCTTAGAA TCACTGTAGT GCTCAGATTT GATGCAAAAT GTCTTAGGCC
8524 TATGTTGAAG GCAGGACAGA AACAATGTTT CCCTCCTACC TGCTGGATA CAGTAAGATA
8584 CTAGTGTAC TGACAATCTT CATAACTAAT TTAGATCTCT CTCCAATCAA CTAAGGAAAT
8644 CAACTCTTAT TAATAGACTG GGCCACACAT CTACTAGGCA TGAATAAAT GCTTGCTGAA
8704 TGAACAAATG AATGAAGAGC CTATAGCATC ATGTTACAGC CATAGTCCTA AAGTGGTGT
8764 TCTCATGAAG GCCAAATGCT AAGGGATTGA GCTTCAGTCC TTTTTCCTAAC ATCTTGTTCT
8824 CTAACAGAA TCTCTTCTTT TCTTCATAGG AGATGCCTGA GATACCCAAA ACCATCACAG
8884 GTAGTGAGAC CAACCTCCTC TCTTCTGCGG AAATCAGCG CACTAAGAAC TATTTACAT
8944 CAGTTGCCCA TCCAACTTG TTTATTGCCA CAAAGCAAGA CTACTGGGTG TGCTTGGCAG
9004 GGGGGCCACC CTCTATCACT GACTTTCAGA TACTGGAAAA CCAGGCGTAG GTCTGGAGTC
9064 TCACTTGCT CACTTGTCGA GTGTTGACAG TTCATATGTA CCATGTACAT GAAGAAGCTA
9124 AATCCTTTAC TGTTAGTCAT TTGCTGAGCA TGTACTGAGC CTTGTAATTC TAAATGAATG
9184 TTTACACTCT TTGTAAGAGT GGAACCAACA CTAACATATA ATGTTGTTAT TTAAAGAACA
9244 CCCTATATTT TGCATAGTAC CAATCATTTT AATTATTATT CTTCATAACA ATTTTAGGAG
9304 GACCAGAGCT ACTGACTATG GCTACCAAAA AGACTCTACC CATATTACAG ATGGGCAAAT
9364 TAAGGCATAA GAAAACCTAAG AAATATGCAC AATAGCAGTT GAAACAAGAA GCCACAGACC
9424 TAGGATTTCA TGATTTTCATT TCAACTGTTT GCCTTCTGCT TTAAAGTTGC TGATGAACTC
9484 TTAATCAAAT AGCATAAGTT TCTGGGACCT CAGTTTATATC ATTTTCAAAA TGGAGGGAAT
9544 AATACCTAAG CCTTCCTGCC GCAACAGTTT TTTATGCTAA TCAGGGAGGT CATTTTGGTA
9604 AAATACTTCT CGAAGCCGAG CCTCAAGATG AAGGCAAAGC ACGAAATGTT ATTTTTTAAT
9664 TATTATTTAT ATATGTATTT ATAAATATAT TTAAGATAAT TATAATATAC TATATTTATG
9724 GGAACCCCTT CATCCTCTGA GTGTGACCAG GCATCCTCCA CAATAGCAGA CAGTGTTTTC
9784 TGGGATAAGT AAGTTTGATT TCATTAATAC AGGGCATTTT GGTCCAAGTT GTGCTTATCC
9844 CATAGCCAGG AAACCTCTGA TTCTAGTACT TGGGAGACCT GTAATCATAT AATAAATGTA
9904 CATTAATTAC CTTGAGCCAG TAATTGGTCC GATCTTTGAC TCTTTTGCCA TTAACTTAC
9964 CTGGGCATTC TTGTTTCATT CAATTCCACC TGCAATCAAG TCCTACAAGC TAAAATTAGA
10024 TGAACCAAC TTTGACAACC ATGAGACCAC TGTTATCAAA ACTTTCTTTT CTGGAATGTA
10084 ATCAATGTTT CTTCTAGGTT CTAAAAATTG TGATCAGACC ATAATGTTAC ATTATTATCA
10144 ACAATAGTGA TTGATAGAGT GTTATCAGTC ATAATAAAT AAAGCTTGCA ACAAATTCT
10204 CTGACACATA GTTATTCATT GCCTTAATCA TTATTTTACT GCATGGTAAT TAGGGACAAA
10264 TGGTAAATGT TTACATAAAT AATTGTATTT AGTGTTACTT TATAAAATCA AACCAGATT
10324 TTATATTTTT TTCTCCTCTT TGTTAGCTGC CAGTATGCAT AAATGGCATT AAGAATGATA
10384 ATATTTCCGG GTTCACTTAA AGCTCATATT ACACATACAC AAAACATGTG TTCCCATCTT
10444 TATACAACT CACACATACA GAGCTACATT AAAACAACCT AATAGGCCAG GCACGGTGGC
10504 TCAGACCTGT AATCCCAGCA CTTTGGGAGG

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FIG. 1C

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-1933 AGAAAGAAA AGAGAGAGAA AGAAAAGAAA GAGGAAGGAA GGAAGGAAGG AAGAAAGACA
-1873 GGCTCTGAGG AAGGTGGCAG TTCTTACAAC GGGAGAACCA GTGGTTAATT TGCAAAGTGG
-1813 ATCCTGTGGA GGCANN CAGA GGAGTCCCCT AGGCCACCCA GACAGGGCTT TTAGCTATCT
-1753 GCAGGCCAGA CACCAAATTT CAGGAGGGCT CAGTGTTAGG AATGGATTAT GGCTTATCAA
-1693 ATTCACAGGA AACTAACATG TTGAACAGCT TTTAGATTTT CTGTGGAAAA TATAACTTAC
-1633 TAAAGATGGA GTTCTTGTGA CTGACTCCTG ATATCAAGAT ACTGGGAGCC AAATTAAGAAA
-1573 TCAGAAGGCT GCTTGGAGAG CAAGTCCATG AAATGCTCTT TTTCCCACAG TAGAACCTAT
-1513 TTCCCTCGTG TCTCAAATAC TTGCACAGAG GCTCACTCCC TTGGATAATG CAGAGCGAGC
-1453 ACGATACCTG GCACATACTA ATTTGAATAA AATGCTGTCA AATTCCCATT CACCCATTCA
-1393 AGCAGCAAAC TCTATCTCAC CTGAATGTAC ATGCCAGGCA CTGTGCTAGA CTTGGCTCAA
-1333 AAAGATTTCA GTTTCTTGGG GGAACCAGGA GGGCAAGGTT TCAACTCAGT GCTATAAGAA
-1273 GTGTTACAGG CTGGACACGG TGGCTCACGC CTGTAATCCC AACATTTGGG AGGCCGAGGC
-1213 GGGCAGATCA CAAGGTCAGG AGATCGAGAC CATCCTGGCT AACATGGTGA AACCTGTCT
-1153 CTACTAAAAA TACAAAAAAT TAGCCGGGCG TTGGCGGCAG GTGCCTGTAG TCCCAGCTGC
-1093 TGGGGAGGCT GAGGCAGGAG AATGGTGTGA ACCCGGGAGG CGGAAC TTGC AGGGGGCCGA
-1033 GATCGTGCCA CTGCACTCCA GCCTGGGCGA CAGAGTGAGA CTCTGTCTCA AAAAAAAAAA
-973 AAAAGTGTTA TGATGCAGAC CTGTCAAAGA GGCAAAGGAG GGTGTTCCCTA CACTCCAGGC
-913 ACTGTTTCATA ACCTGGACTC TCATTCATTC TACAAATGGA GGGCTCCCCT GGGCAGATCC
-853 CTGGAGCAGG CACTTTGCTG GTGTCTCGGT TAAAGAGAAA CTGATAACTC TTGGTATTAC
-793 CAAGAGATAG AGTCTCAGAT GGATATTCTT ACAGAAACAA TATTCCTACT TTTCAGAGTT
-733 CACCAAAAAA TCATTTTAGG CAGAGCTCAT CTGGCATTGA TCTGGTTCAT CCATGAGATT
-673 GGCTAGGGTA ACAGCACCTG GTCTTG CAGG GTTGTGTGAG CTTATCTCCA GGGTTGCCCC
-613 AACTCCGTCA GGAGCCTGAA CCCTGCATAC CGTATGTTCT CTGCCCCAGC CAAGAAAGGT
-553 CAATTTTCTC CTCAGAGGCT CCTGCAATTG ACAGAGAGCT CCCGAGGCAG AGAACAGCAC
-493 CCAAGGTAGA GACCCACACC CTCAATACAG ACAGGGAGGG CTATTGGCCC TTCATTGTAC
-433 CCATTTATCC ATCTGTAAGT GGAAGATTCT CTAACCTTAA GTACAAAGAA GTGAATGAAG
-373 AAAAGTATGT GCATGTATAA ATCTGTGTGT CTTCCACTTT GTCCACATA TACTAAATTT
-313 AAACATTCTT CTAACGTGGG AAAATCCAGT ATTTTAATGT GGACATCAAC TGCACAACGA
-253 TTGTCAGGAA AACAAATGCAT ATTTGCATGG TGATACATTT GCAAAATGTG TCATAGTTTG
-193 CTACTCCTTG CCCTTCCATG AACCAGAGAA TTATCTCAGT TTATTAGTCC CCTCCCCTAA
-133 GAAGCTTCCA CCAATACTCT TTTCCCCTTT CTTTAACTT GATTGTGAAA TCAGGTATTC
-73 AACAGAGAAA TTTCTCAGCC TCCTACTTCT GCTTTTGAAG GCTATAAAAA CAGCGAGGGA
-13 GAAACTGGCA GATACCAAAC CTCTTCGAGG CACAAGGCAC AACAGGCTGC TCTGGGATTC
48 TCTTCAGCCA ATCTTCATTG CTCAAGTATG ACTTTAATCT TCCTTACAAC TAGGTGCTAA
108 GGGAGTCTCT CTGTCTCTCT GCCTCTTTGT GTGTATGCAT ATTCTCTCTC TCTCTCTCTT
168 TCTTTCTCTG TCTCTCCTCT CTTCTCTCTC TGCCTCCTCT CTCAGCTTTT TGCAAAATG
228 CCAGGTGTAA TATAATGCTT ATGACTCGGG AAATATTCTG GGAATGGATA CTGCTTATCT
288 AACAGCTGAC ACCCTAAAGG TTAGTGTCAG AGCCTCTGCT CCAGCTCTCC TAGCCAATAC
238 ATTGCTAGTT GGGGTTTGGT TTAGCAAATG CTTTCTCTA GACCCAAAGG ACTTCTCTTT
308 CACACATTCA TTCATTTACT CAGAGATCAT TTCTTTGCAT GACTGCCATG CACTGGATGC
468 TGAGAGAAAT CACACATGAA CGTAGCCGTC ATGGGGAAGT CACTCATTTT CTCCTTTTAA
528 CACAGGTGTC TGAAGCAGCC ATGGCAGAAG TACCTGAGCT CGCCAGTGAA ATGATGGCTT
588 ATTACAGGTC AGTGGAGACG CTGAGACCAG TAACATGAGC AGGTCTCCTC TTTCAAGAGT
648 AGAGTGTTAT CTGTGCTTGG AGACCAGATT TTTCCCCTAA ATTGCCTCTT TCAGTGCGAA
708 ACAGGGTGCC AAGTAAATCT GATTTAAAGA CTACTTTCCC ATTACAAGTC CCTCCAGCCT
768 TGGGACCTGG AGGCTATCCA GATGTGTTGT TGCAAGGGCT TCCTGCAGAG GCAAATGGGG
828 AGAAAAGATT CCAAGCCCAC AATACAAGGA ATCCCTTTGC AAAGTGTTGGC TTGGAGGGAG
888 AGGGAGAGCT CAGATTTTAG CTGACTCTGC TGGGCTAGAG GTTAGGCCTC AAGATCCAAC
948 AGGGAGCACC AGGGTGCCCA CCTGCCAGGC CTAGAATCTG CCTTCTGGAC TGTCTGCGC
1008 ATATCACTGT GAAACTTGCC AGGTGTTTCA GGCAGCTTTG AGAGGCAGGC TGTTCGAGT

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Fig. 2

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1068 TTCTTATGAA CAGTCAAGTC TTGTACACAG GGAAGGAAAA ATAAACCTGT TTAGAAGACA
1128 TAATTGAGAC ATGTCCCTGT TTTTATTACA GTGGCAATGA GGATGACTTG TTCTTTGAAG
1188 CTGATGGCCC TAAACAGATG AAGGTAAGAC TATGGGTTTA ACTCCCAACC CAAGGAAGGG
1248 CTCTAACACA GGGAAAGCTC AAAGAAGGGA GTTCTGGGCC ACTTTGATGC CATGGTATTT
1308 TGTTTTAGAA AGACTTTAAC CTCTTCCAGT GAGACACAGG CTGCACCACT TGCTGACCTG
1368 GCCACTTGGT CATCATATCA CCACAGTCAC TCACTAACGT TGGTGGTGGT GGCCACACTT
1428 GGTGGTGACA GGGGAGGAGT AGTGATAATG TTCCCATTTC ATAGTAGGAA GACAACCAAG
1488 TCTTCAACAT AAATTTGATT ATCCTTTTAA GAGATGGATT CAGCCTATGC CAATCACTTG
1548 AGTTAAACTC TGAAACCAAG AGATGATCTT GAGAACTAAC ATATGTCTAC CCCTTTTGAG
1608 TAGAATAGTT TTTTGCTACC TGGGGTGAAG CTTATAACAA CAAGACATAG ATGATATAAA
1668 CAAAAAGATG AATTGAGACT TGAAAGAAAA CCATTCACTT GCTGTTTGAC CTTGACAAGT
1728 CATTTTACCC GCTTTGGACC TCATCTGAAA AATAAAGGGC TGAGCTGGAT GATCTCTGAG
1788 ATTCCAGCAT CCTGCAACCT CCAGTTCTGA AATATTTTCA GTTGTAGCTA AGGGCATTTG
1848 GGCAGCAAAT GGTCATTTTT CAGACTCATC CTTACAAAGA GCCATGTTAT ATTCTGCTG
1908 TCCCTTCTGT TTTATATGAT GCTCAGTAGC CTTCTTAGGT GCCCAGCCAT CAGCCTAGCT
1968 AGGTCAGTTG TGCAGGTTGG AGGCAGCCAC TTTTCTCTGG CTTTATTTTA TTCCAGTTTG
2028 TGATAGCCTC CCCTAGCCTC ATAATCCAGT CCTCAATCTT GTTAAAAACA TATTTCTTTA
2088 GAAGTTTTAA GACTGGCATA ACTTCTTGGC TGCAGCTGTG GGAGGAGCCC ATTGGCTTGT
2148 CTGCCTGGCC TTTGCCCCCCT ATTGCCTCTT CCAGCAGCTT GGCTCTGCTC CAGGCAGGAA
2208 ATTCTCTCCT GCTCAACTTT CTTTTGTGCA CTTACAGGTC TCTTTAACTG TCTTTCAAGC
2268 CTTTGAACCA TTATCAGCCT TAAGGCAACC TCAGTGAAGC CTTAATACGG AGCTTCTCTG
2328 AATAAGAGGA AAGTGGTAAC ATTTACAAAA AAGTACTCTC ACAGGATTTG CAGAATGCCT
2388 ATGAGACAGT GTTATGAAAA AGGAAAAAAA AGAACAGTGT AGAAAAATTG AATACTTGCT
2448 GAGTGAGCAT AGGTGAATGG AAAATGTTAT GGTCATCTGC ATGAAAAAGC AAATCATAGT
2508 GTGACAGCAT TAGGGATACA AAAAGATATA GAGAAGGTAT ACATGTATGG TGTAGGTGGG
2568 GCATGTACAA AAAGATGACA AGTAGAATCG GGATTTATTC TAAAGAATAG CCTGTAAGGT
2628 GTCCAGAAGC CACATTCTAG TCTTGAGTCT GCCTCTACCT GCTGTGTGCC CTTGAGTACA
2688 CCCTTAACCT CTTTGAGCTT CAGAGAGGGA TAATCTTTTT ATTTTATTTT ATTTTATTTT
2748 GTTTTGTTTT GTTTTGTTTT GTTTTATGAG ACAGAGTCTC ACTCTGTTGC CCAGTCTGGA
2808 GTGCAGTGGT ACAATCTTGG CTTACTGCAT CCTCCACCTC CTGAGTTCAA CGGATTCTCC
2868 TTCTCAGTC TCCTGAATAG CTAGGATTAC AGGTGCACCC CACCACACCC AGCTAATTTT
2928 TGTATTTTTA GTAGAGAAGG GGTTTCGCCA TGTGCGCCAG GCTGGTTTTG AAGTCCTGAC
2988 CTAAATGATT CATCCACCTC GGCTTCCCAA AGTGCTGGGA TTACAGGCAT GAGCCACCAC
3048 GCCTGGCCCA GAGAGGGATG ATCTTTAGAA GCTCGGGATT CTTTCAAGCC CTTTCTCTCT
3108 CTCTGAGCTT TCTACTCTCT GATGTCAAAG CATGGTTCCT GGCAGGACCA CCTCACCAGG
3168 CTCCCTCCCT CGCTCTCTCC GCAGTGCTCC TTCCAGGACC TGGACCTCTG CCCTCTGGAT
3228 GGCGGCATCC AGCTACGAAT CTCCGACCAC CACTACAGCA AGGGCTTCAG GCAGGCCGCG
3288 TCAGTTGTTG TGGCCATGGA CAAGCTGAGG AAGATGCTGG TTCCCTGCCC ACAGACCTTC
3348 CAGGAGAATG ACCTGAGCAC CTTCTTTCCC TTCATCTTTG AAGAAGGTAG TTAGCCAAGA
3408 GCAGGCAGTA GATCTCCACT TGTGTCTCTT TGGAAGTCAT CAAGCCCCAG CCAACTCAAT
3468 TCCCCCAGAG CCAAAGCCCT TTAAAGGTAG AAGGCCCAGC GGGGAGACAA AACAAAGAAG
3528 GCTGGAAACC AAAGCAATCA TCTCTTTAGT GGAAACTATT CTTAAAGAAG ATCTTGATGG
3588 CTACTGACAT TTGCAACTCC CTCACTCTTT CTCAGGGGCC TTTCACTTAC ATTGTCACCA
3648 GAGGTTTCGTA ACCTCCCTGT GGGCTAGTGT TATGACCATC ACCATTTTAC CTAAGTAGCT
3708 CTGTTGCTCG GCCACAGTGA GCAGTAATAG ACCTGAAGCT GGAACCCATG TCTAATAGTG
3768 TCAGGTCCAG TGTTCTTAGC CACCCCACTC CCAGCTTCAT CCCTACTGGT GTTGTCATCA
3828 GACTTTGACC GTATATGCTC AGGTGTCCTC CAAGAAATCA AATTTTGCCA CCTCGCCTCA
3888 CGAGGCCTGC CCTTCTGATT TTATACCTAA ACAACATGTG CTCCACATTT CAGAACCCTAT
3948 CTTCTTCGAC ACATGGGATA ACGAGGCTTA TGTGCACGAT GCACCTGTAC GATCACTGAA
4008 CTGCACGCTC CGGGACTCAC AGCAAAAAAG CTTGGTGATG TCTGGTCCAT ATGAACTGAA
4068 AGCTCTCCAC CTCCAGGGAC AGGATATGGA GCAACAAGGT AAATGGAAAC ATCCTGGTTT
4128 CCCTGCCTGG CCTCCTGGCA GCTTGCTAAT TCTCCATGTT TTAAACAAAG TAGAAAGTTA
4188 ATTTAAGGCA AATGATCAAC ACAAGTGAAA AAAAATATTA AAAAGGAATA TACAAACTTT

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FIG. 2A

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4248 GGTCCCTAGAA ATGGCACATT TGATTGCACT GGCCAGTGCA TTTGTTAACA GGAGTGTGAC
4308 CCTGAGAAAT TAGACGGCTC AAGCACTCCC AGGACCATGT CCACCCAAGT CTCTTGGGCA
4368 TAGTGCAGTG TCAATTCTTC CACAATATGG GGTCATTTGA TGGACATGGC CTAAGTGCCT
4428 GTGGGTTCTC TCTTCCTGTT GTTGAGGCTG AAACAAGAGT GCTGGAGCGA TAATGTGTCC
4488 ATCCCCCTCC CCAGTCTTCC CCCCTTGCCC CAACATCCGT CCCACCCAAT GCCAGGTGGT
4548 TCCTTGTAGG GAAATTTTAC CGCCCAGCAG GAACTTATAT CTCTCCGCTG TAACGGGCAA
4608 AAGTTTCAAG TGCGGTGAAC CCATCATTAG CTGTGGTGAT CTGCCTGGCA TCGTGCCACA
4668 GTAGCCAAAG CCTCTGCACA GGAGTGTGGG CAACTAAGGC TGCTGACTTT GAAGGACAGC
4728 CTCCTCAGG GGAAGCTAT TTGCTCTCAG CCAGGCCAAG AAAATCCTGT TTCTTTGGAA
4788 TCGGGTAGTA AGAGTGATCC CAGGGCCTCC AATTGACACT GCTGTGACTG AGGAAGATCA
4848 AAATGAGTGT CTCTCTTTGG AGCCACTTTC CCAGCTCAGC CTCTCCTCTC CCAGTTTCTT
4908 CCCATGGGCT ACTCTCTGTT CCTGAAACAG TTCTGGTGCC TGATTTCTGG CAGAAGTACA
4968 GCTTCACCTC TTTCCTTTCC TTCCACATTG ATCAAGTTGT TCCGCTCCTG TGGATGGGCA
5028 CATTGCCAGC CAGTGACACA ATGGCTTCCT TCCTTCCTTC CTTCAGCATT TAAAATGTAG
5088 ACCCTCTTTC ATTCTCCGTT CCTACTGCTA TGAGGCTCTG AGAAACCCTC AGGCCTTTGA
5148 GGGGAAACCC TAAATCAACA AAATGACCCT GCTATTGTCT GTGAGAAGTC AAGTTATCCT
5208 GTGTCTTAGG CCAAGGAACC TCACTGTGGG TTCCACAGA GGCTACCAAT TACATGTATC
5268 CTACTCTCGG GGCTAGGGGT TGGGGTGACC CTGCATGCTG TGTCCCTAAC CACAAGACCC
5328 CTTTCTTCTC TCAGTGGTGT TCTCCATGTC CTTTGTACAA GGAGAAGAAA GTAATGACAA
5388 AATACCTGTG GCCTTGGGCC TCAAGGAAAA GAATCTGTAC CTGTCTTGGC TGTGAAAGA
5448 TGATAAGCCC ACTCTACAGC TGGAGGTAAG TGAATGCTAT GGAATGAAGC CCTTCTCAGC
5508 CTCCTGCTAC CACTTATTCC CAGACAATTC ACCTTCTCCC CGCCCCATC CCTAGGAAAA
5568 GCTGGGAACA GGTCTATTTG ACAAGTTTTG CATTAATGTA AATAAATTTA ACATAATTTT
5628 TAACTGCGTG CAACCTTCAA TCCTGCTGCA GAAAATTAAT TCATTTTGCC GATGTTATTA
5688 TGTCTACCA TAGTTACAAC CCCAACAGAT TATATATTGT TAGGGCTGCT CTCATTGAT
5748 AGACACCTTG GGAAATAGAT GACTTAAAGG GTCCCATTAT CACGTCCACT CCACTCCCAA
5808 AATCACCACC ACTATCACCT CCAGCTTCTC CAGCAAAAGC TTCATTCCA AGTTGATGTC
5868 ATTCTAGGAC CATAAGGAAA AATACAATAA AAAGCCCCTG GAAACTAGGT ACTTCAAGAA
5928 GCTCTAGCTT AATTTTCACC CCCCCAAAAA AAAAAAATTC TCACCTACAT TATGCTCCTC
5988 AGCATTTGGC ACTAAGTTTT AGAAAAGAAG AAGGGCTCTT TTAATAATCA CACAGAAAGT
6048 TGGGGGCCCA GTTACAACCTC AGGAGTCTGG CTCTCGATCA TGTGACCTGC TCGTCAGTTT
6108 CCTTTCTGGC CAACCCAAAG AACATCTTTC CCATAGGCAT CTTTGTCCCT TGCCCCACAA
6168 AAATTCTTCT TTCTCTTTTCG CTGCAGAGTG TAGATCCCAA AAATTACCCA AAGAAGAAGA
6228 TGGAAAAGCG ATTTGTCTTC AACAAGATAG AAATCAATAA CAAGCTGGAA TTTGAGCTG
6288 CCCAGTTCCC CAACTGGTAC ATCAGCACCT CTCAAGCAGA AAACATGCCG GTCTTCTTGG
6348 GAGGGACCAA AGGCGGCCAG GATATAACTG ACTTCACCAT GCAATTTGTG TCTTCTTAAA
6408 GAGAGCTGTA CCCAGAGAGT CCTGTGCTGA ATGTGGACTC AATCCCTAGG GCTGGCAGAA
6468 AGGGAACAGA AAGGTTTTTTG AGTACGGCTA TAGCCTGGAC TTTCTGTGTT TCTACACCAA
6528 TGCCCAACTG CCTGCCTTAG GGTAAGTCTA AGAGGATCTC CTGTCCATCA GCCAGGACAG
6588 TCAGCTCTCT CCTTTCAGGG CCAATCCCCA GCCCTTTTGT TGAGCCAGGC CTCTCTCACC
6648 TCTCCTACTC ACTTAAAGCC CGCCTGACAG AAACCACGGC CACATTTGGT TCTAAGAAAC
6708 CCTCTGTCAT TCGCTCCAC ATTCTGATGA GCAACCGCTT CCCTATTTAT TTATTTATTT
6768 GTTTGTTTGT TTTGATTCAT TGGTCTAATT TATTCAAAGG GGGCAAGAAG TAGCAGTGTC
6828 TGTAAGAGAG CCTAGTTTTT AATAGCTATG GAATCAATTC AATTTGGACT GGTGTGCTCT
6888 CTTTAAATCA AGTCCTTTAA TTAAGACTGA AAATATATAA GCTCAGATTA TTTAAATGGG
6948 AATATTTATA AATGAGCAAA TATCATACTG TTCAATGGTT CTGAAATAAA CTTCACTGAA
7008 GAAAAAATAA AAAGGTCTC TCCTGATCAT TGACTGTCTG GATTGACACT GACAGTAAGC
7068 AAACAGGCTG TGAGAGTTCT TGGGACTAAG CCCACTCCTC ATTGCTGAGT GCTGCAAGTA
7128 CCTAGAAATA TCCTTGGCCA CCGAAGACTA TCCTCCTCAC CCATCCCCTT TATTTCTGTT
7188 TTCAACAGAA GGATATTCAG TGCACATCTG GAACAGGATC AGCTGAAGCA CTGCAGGGAG
7248 TCAGGACTGG TAGTAACAGC TACCATGATT TATCTATCAA TGCACCAAAC ATCTGTTGAG
7308 CAAGCGCTAT GTACTAGGAG CTGGGAGTAC AGAGATGAGA ACAGTCACAA GTCCCTCCTC
7368 AGATAGGAGA GGCAGCTAGT TATAAGCAGA ACAAGGTAAC ATGACAAGTA GAGTAAGATA

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FIG. 2B

7428 GAAGAACGAA GAGGAGTAGC CAGGAAGGAG GGAGGAGAAC GACATAAGAA TCAAGCCTAA
7488 AGGGATAAAC AGAAGATTTC CACACATGGG CTGGGCCAAT TGGGTGTCGG TTACGCCTGT
7548 AATCCCAGCA CTTTGGGTGG CAGGGGCAGA AAGATCGCTT GAGCCCAGGA GTTCAAGACC
7608 AGCCTGGGCA ACATAGTGAG ACTCCCATCT CTACAAAAAA TAAATAAATA AATAAAACAA
7668 TCAGCCAGGC ATGCTGGCAT GCACCTGTAG TCCTAGCTAC TTGGGAAGCT GACACTGGAG
7728 GATTGCTTGA GCCCAGAAGT TCAAGACTGC AGTGAGCTTA TCCGTTGACC TGCAGGTCGA
7788 C

FIG. 2C


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-5988 GTCGACCTGC AGGTCAACGG ATCTGAGAGG AGAGTAGCTT CTTGTAGATA ACAGTTGGAT
-5928 TATATACCAT GTCCTGATCC CCTTCATCAT CCAGGAGAGC AGAGGTGGTC ACCCTGATAG
-5868 CAGCAAGCCT GGGGGCTGCA GCTTGGTGGG TAGAGGTACT CAGGGGTACA GATGTCTCCA
-5808 AACCTGTCCT GCTGCCTTAG GGAGCTTCTA ATAAGTTGAT GGATTTGGTT AAAATTAAC
-5748 TGGCTACTTG GCAGGACTGG GTCAGTGAGG ACCAACAAAA AGAAGACATC AGATTATACC
-5688 CTGGGGGTTT GTATTCTTTG TGTTCCTTTC TCTTCTTTGT ACTAAAATAT TTACCCATGA
-5628 CTGGGAAAGA GCAACTGGAG TCTTTGTAGC ATTATCTTAG CAAAAATTTA CAAAGTTTGG
-5568 AAAACAATAT TGCCCATATT GTGTGGTGTG TCCTGTGACA CTCAGGATTC AAGTGTGGC
-5508 CGAAGCCACT AAATGTGAGA TGAAGCCATT ACAAGGCAGT GTGCACATCT GTCCACCCAA
-5448 GCTGGATGCC AACATTTTAC AAATAGTGCT TGCCTGACAC AAATGCAGTT CCAGGAGGCC
-5388 CAAATGAAAA TGTTCGTACT GAAATTTGTT AAAGCTTCCC GACAAACTAG ATTTATCAGT
-5328 AAGGATTGTT TTCTGCAAGG GGGATGAAAC TTGTGGGGTG AGCCATTGTT GCTGAGGAGG
-5268 AGGGAGGTTG GAGCTGAGAA ATGTGGAGAC AATTTCCCTT TAGAAGGACT GAATCTCCCT
-5208 GCCTCTCTGG GGTGCGGCAG CCAGCAGGAT CCAATGGTGT ATATGTCTCC CCAGCTCCCC
-5148 ATTCAGTGAT ATCATGTCAG TAGCTTGAAA TTATCCGTGG TGGGAGTATT ATGTCATGGA
-5088 AATTGGCAA TGGAACTTTT TATTGGAGAT TCAATTGTTA AACTTTTACC AGCACAACAC
-5028 TGCCCTGCCT TCAGAGTCAA TGACCCTATC CAAGTTTAAT CCATCTGTCC ACTGTCTCCA
-4968 ACACGATCTT TATAAAACAC ACCTGACAAC ATTACCTTTT TATTCAGTTT TTTAAAAGAT
-4908 AAGTTTCCAG CTCATCGGGG TGGCTTTAAA GGCCATTTCCT CCTCTGGACC TCACCCAACT
-4848 TTTCAAATCA CTTTTCCTAC CCCTACCTCT AAATGCTACT CAAACTCCAG CCATCCTGAA
-4788 TAATAAGACT TTTGAAAAGT AGATTATGGG CTGGGCACAG TGGCTCACAC CTGTAATCCC
-4728 AGCACTTTGG GAGGCCAAGA TGGGTGGATC ACCTGAGGTC GGGAGTTCGA GACCAGCCTG
-4668 ACTAACATAG TGAAACCCTG TCTCTACTAA AAATACAAAA TTAGTTGGGG GTGGTGGCAC
-4608 AAGCCTGTAA TCCCAGCTAC TCAGGAGGTT GAGGCAGGGG AATTGCTTGA ACCTGGGAGG
-4548 CGGAGGTTGC GGTGAGCCTA GATTGCTCCA CTGCACTCCA GCCTGGGCAA CAAGAGCGAA
-4488 ACTCCATCTC AAAAAAATAA ATAAATAAAT AAAGTAGATT ACATCAGATA CCTCTGGCCT
-4428 AGGTTGTTTA TGACCAACTC TCCTGCTGAG AATAACTAGA AAAGCTAGAC AAAACATATT
-4368 TCCAAAAGAT CTCTTTGGAG GCATCAGAGA ATGGCCAAGG CTGTAAGGAA CTGCCTGAGC
-4308 CCAGAGAGGT GGAGCCCAGC ACTGGTGCCC TTTACTCCTG GGGACATGTG CTGGTTTCAA
-4248 AAACCTCAGC TGAGCTTTTG AGCATTTCATG GAACTTGGTG GGGGAGATGA AATTTGTACC
-4188 TTAAATCCTG CCTACAGGGA GGGTCCCTGA TAATCCCCAC CCAATTTGGA AATCTGGGTC
-4128 AGCCTTCACA GGTACTGAAG CCCTCCTCTG AATGATCTCA AGTCCTGCTA GGGTAGAGGT
-4068 TACCTGCTTT TGAAAGGCTC CTGGCCTACC TGTGCAGCAG GAGCAAAAGT GAACCATCTC
-4008 AGGGTACAGA TAACAATCAT CCAGAGCCTT GAATGACCTC TACTGTGCTT AATATATAGT
-3948 ATTCAGCAGT CAGTAAAAAG GATTTAGGCA CATGCAAGAT GACCTGTGTA TCAGGGAGAA
-3888 ATAGGCAATA AATTGAGATC CAGCAGGGAT TTGAATCATG GATTTGAATC AGGGGCAGCC
-3828 TTCGAAAGAA CTATGGAGAA TATACTCAGA TTTAAAACAT AAGATTGGAA TTTTGGCAG
-3768 AGAACTAACA ACTGTACAAA AAAGGAACCA AATGGAAATC CTAGAACTGA AAGATGCAAT
-3708 TAACCGATGT TGAGAAATAG CCAACATCTA TTGAACACTT CCCATGTGGA CAGCTGTGCT
-3648 AAACACTTTA CAGGCATCAA CATAAGATGT GTCCCTTAC AGCAGTGCAG TGTCCCTCCT
-3588 AAGACATGGA CAGCCTGGTT TCCCTATCTC TCTGCTTCAT CAAAACCCCT TTACGTGGGG
-3528 CTTAGACACT CCTGTTGTCT CTAGTGTCTA GTAGCACAGG GCTCAGCACA TGGAAAGCCAC
-3468 TAGATACAAT TTGATGACCA GGACCTCCGA TGAAAGCCAT GGGTGTGAT TGGGAAGGCA
-3408 TTGTCTTTTA TGTGCTATGG TCTTAAAGCT TCATCCAGGA AGCAGAACTC GGGGGTGTCT
-3348 GAGGACCCAG AACCGAGAAT AAGATTAGTC AGAGATTTCC TGTGGGCAGA AATCATAAGG
-3288 ACGCCAACTG TTTGGGTGAG ATAAGACGAA ACCAAGAGTG GACTTGTGGC CAGAAGCGTG
-3228 AGGAAGAGGG AGAGAGCTTC CCTTGTCCCC TTTCTTCCTC TCCCTAAGCC ACAGTGATTG
-3168 ACAGCCCCCC CGCTTTGGAG TCAGAGCAGG CTTGAGACTG GACTGGGAAA GGAGGGTGGG
-3108 TCAGGATACA GAGCAGGAAG GCTGGGAGTG CAGGCAGGA GCAAGGGGCT GGGGCATTCA
-3048 TTGTGCCTGA TCTCTCCAC TTTACCTGGG GTAAAGAAGC ATATGCAAAA GCCACGGTGT

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Fig. 3

-2988	GAGTATTTCC	CAAGTGCCAG	GGTCAGGGCA	TGATTCATCA	CGTGCAGCAT	TTCATTCAAT
-2928	CCTTATAGTA	ACCGATGATG	TGGCTTCTAT	TATTAGCTCT	ATCAGATAAT	GAAACTGAGA
-2868	CCAAGACAGG	CTCTGCACAT	TGTGTGGGGT	AATGACACAG	GGGGATTTCAG	ACCTAGACTC
-2808	CATAACTCCT	GCCCCAGGGA	CCACCCCCAC	CCTCACCCTG	TGCATGTCTGA	CAAAGGACAG
-2748	ACTGGGCCAC	TTCTCAGGAC	ACAGCGGGGA	AATGACACAG	AGCAGGGAGG	TTCCAGGAGC
-2688	CCCAGCGTC	TTTTCTCCAG	GAGAATACTC	TCTGAATTCA	GACTGGGGTC	AGAGAAACAT
-2628	TTACCCAGGA	GCCGCAGTGT	GGGTGGGGCT	TTTTACTTGA	AACGCTGTCT	GAAGGCAGTG
-2568	GCAGGATGAA	CTCTCCACCC	TACCTTGGCA	AGCCACTTCT	CTTCTGCAAT	CTGTAAGGAC
-2508	ATTGTTGAGA	GAATTATGGT	CTTCCAATTC	CGGAGGGTTG	AAGAAAAGACA	AATAGGAGAG
-2448	AACCTATCAT	AGTCAGGTGC	TAGCTGCCTT	CTCTTTCAGA	GAGTGTGAGA	ATAAAGTGAT
-2388	ACACTTGATT	ATTAGCAAAT	ACTTTGGAAA	TTTTAAACGC	TAATATTCAA	CACACTCTGG
-2328	AAGAGGCAAA	TAAAGTAGACA	GGTTCATATA	CATCATCTCC	TTCAGCTAGT	CCTCACAAAA
-2268	ACAAACAAAT	GAATAAACAA	AATTCCTTCT	TGGCCCTCAT	AGGAAGACAC	TGTTTCTTGA
-2208	ACGTGTTTCA	AAAAGGATGG	GTGACTCACT	CAAGGTCACA	CTGTTTATGA	GGACAGTACA
-2148	GGAATACAGA	CATGCCATTT	TGCCGTGAAA	AATCCATCAC	CCAGGGAGGT	GACACAATTT
-2088	TGCAGAAATG	TTCTATTTCC	TCTGAAGGAT	ACATTCTTTA	AACCTTTGGG	AAATTTCATTC
-2028	ATAGTCTTCC	TCCTTTGAAG	GATTACTCTC	TGGACACAAA	GTGTTTGATT	CTGATTTGTT
-1968	GGTTGGAAGA	TGTGTTGGTT	GAGAGAAAGA	TTCTGATTTG	TTGGTTGAAA	ATAGACTCAT
-1908	CAAGATCAAC	TGCTGTAGTA	GTAAATATTT	TGACATTTTG	TCTGTATTCC	TGTGCTGCCC
-1848	TCACAAGCTG	CATCACCTTG	AGTGAGTCAT	TCATACTTTT	TTGTTTGTFT	TTGTTTGGGA
-1788	GATGGAGTCT	TACTCTGTTG	CCTAGGCTGG	AGTGCGGTGG	CGTGATCTTG	GCTCACTGCG
-1728	ACCTCCATCT	CCTGGGTTCA	AGTGATCCCT	CTGCCTCAGC	CTCCCGAGTA	GCTGGGATTA
-1668	CAGGCACATG	CCACCATCCC	TGCTAATTTT	TGCATTTTCA	GTAGAGACGG	AGTTTCACCA
-1608	TGTTGGTCAG	GTTGGTCTTG	AACTCCTGAC	CTCAGGTGAT	CCGCCCACCT	CAGCCTCCCC
-1548	AAGTGCTGGG	ATTACAGGTG	TGAGCCACCG	TGCCCAGCCC	AGCCATCATT	TTTGAAACAC
-1488	GTTTGAGAAA	TAGTGTCTTC	CTTTGAGGGC	CAAGGAGACA	TTTTTTTTGT	TTATTTGTTT
-1428	GTTTTTGTGA	GGACTAGCTG	AAGGGGGTGA	TGTATATTAA	CCTGCCTACT	TATTTGCCTC
-1368	TTCCCAGAGT	GTGATGAATA	TTAGGGTTTA	AAGTTTCTGA	AGCATTTGTT	AATAAAGCCC
-1308	GGGGCTGGAG	GTCAGAAGAC	CTGGATTTCT	CTGCATACTT	TTGCCATCAG	CAAGCTGTGT
-1248	GACCTTGGAC	AGATCCCTTT	TTTGTCTAAA	TCTTTCTGAG	TCTTCTTGAA	AACAATGCCA
-1188	GGTTGGGACA	GGATGATTGC	CAAGCTCCCG	TCCAGCTCTA	AAACACTGCA	ACGTATGCTT
-1128	CTGCACCAGC	ACTGTCCATC	CTGTAGATCA	TGCAGAAATT	CTCTTCAACT	TTTTCTTACC
-1068	CATAAAATAG	GAGCATGCCT	ACCTTTTTC	TAATGTTCCA	GGCCCCGGGT	CTAGATATTG
-1008	TAAGTAAGGA	AGTTAATGTG	TATCAGAGCC	CATTATGGGC	CAGAAGTTCT	CCTCTTCCCT
-948	CCTACACCTG	CTTCCTCCCT	CCCTCCCTCC	CTCTTCCCT	TCCTTCCTTC	CATCCATTG
-888	TGAAGAAGAC	ATGATCACCC	TGATTTGAG	AGTGAAGAGA	CAGAGCTCA	ACTAATGAAA
-828	TGATTTGTTT	AAGGTCACAC	GGGTGGCACA	AGGCAAGTGG	CAGAGGTTGA	ATTTAGACCC
-768	ATTCCCTGTCC	AAATGCTGAG	TTTATGTCAT	CGTCCCGAGA	CCATAACTTT	AAAGATGTAA
-708	GATAGTGGGA	AAAGAGTTGA	TTTCAAAGCA	CCTCTCAGAA	GGACTCACTT	TACATCAGGG
-648	GTCAGCAGAC	TCAGGCCAAA	TCCGGTCCAT	TCCCCGCTTT	TGCAAAGAAA	GTTGTAGTGG
-588	AACACAGCTA	GGCTTATTGA	TTTATGGATT	GCCAACGTCC	TTTTGTGAAA	CAGACAGCTG
-528	AGCTGAGTAA	TCGTGGCGCA	CAAAACCTAA	AATATTTACT	ATCTCGTCCT	TTACAGAATG
-468	TTTGCCAATC	TATGGTCCGG	AGTCCAAGGC	TGTCCATTTT	TCAAAGAACA	CAAAGTGACA
-408	TGAGACTGTC	CCATGTGCAG	GGAGCCCTAT	CATTTTATTA	TGAAAAAACG	GCCTTTCTGC
-348	TCAAATCTGT	TTTTTAAAAA	GTCAACAAAC	AGACTCTGGG	TACCTGTCAG	GAACAGTAGG
-288	GAGTTTGGTT	TCCATTGTGC	TCTTCTTCCC	AGGAACCTCA	TGAAGGGGAA	ATAGAAATCT
-228	TAATTTTGGG	GAAATTGCAC	AGGGGAAAAA	GGGGAGGGAA	TCAGTTACAA	CACTCCATTG
-168	CGACACTTAG	TGGGGTTGAA	AGTGACAACA	GCAAGGGTTT	CTCTTTTGG	AAATGCGAGG
-108	AGGGTATTTT	CGCTTCTCGC	AGTGGGGCAG	GGTGGCAGAC	GCCTAGCTTG	GGTGAGTGAC
-48	TATTTCTTTA	TAAACCACAA	CTCTGGGCCC	GCAATGGCAG	TCCACTGCTT	GCTGCAGTCA
13	CAGAATGGAA	ATCTGCAGAG	GCCTCCGCAG	TCACCTAATC	ACTCTCCTCC	TCTTCCTGTT
73	CCATTTCAGAG	ACGATCTGCC	GACCCTCTGG	GAGAAAATCC	AGCAAGATGC	AAGCCTTCAG
133	GTAAGGCTAC	CCCAAGGAGG	AGAAGGTGAG	GGTGGATCAG	CTGGAGACTG	GAAACATATC

FIG. 3A

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193 ACAGCTGCCA GGGCTGCCAG GCCAGAGGGC CTGAGAAGTG GGTTTGGGCT GGAGAGGATG
253 TCCATTATTC AAGAAAGAGG CTGTTACATG CATGGGCTTC AGGACTTGTTG TTTCAAAATA
313 TCCCAGATGT GGATAGTGCG ACCGGAGGGC TGTCTTACTT TCCCAGAGAC TCAGGAACCC
373 AGTGAGTAAT AGATGCATGC CAAGGAGTGG GACTGCGATT CAGGCCTAGT TGAATGTGCT
433 GACAGAGAAG CAGAGAGGGG CACCAGGGGC ACAGCCCGAA GGCCAGACT GATATGGGCA
493 AGGCCTGTCT GTGCTGACAT GTCGGAGGGT CCCACTCTCC AGGGACCTTG GTTTCCTCGT
553 CTGTGACATC TGTGACATGA GAGTCACGAT AACTCCTTGT GTGCCTTACA GGGTTGTTGT
613 GAAAATTAAA TGCACAGATA ATAGCGTAAC AGTATTCCGT GCATTGTAAA GAGCCTGAAA
673 ACCATTATGA TTTGAAAATG GAATCGGCTT TGTGAGACCA TCACTATTGT AAAGATGTGA
733 TGCTGATAGA AATGACAGGA CTGCTTGTGC ATGCCCTCTG CAGTGTGACA TTCCAGCAGT
793 GAAATCATGT TGGGGTGAAT TCTCCCCAC TCTGACCTTT ATGTTTGTCT GGGCCGAGGC
853 TGCAAGTCGG GCTCTGTGGG TGTATGAGTG ACAAGTCTCT CCCTTCCAGA TATGGGGACT
913 GTCTGCTTCC CTAGGTTGCC TCTCCCTGCT CTGATCAGCT AGAAGCTCCA GGAGATCCTC
973 CTGGAGGCCC CAGCAGGTGA TGTTTATCCC TCCAGACTGA GGCTAAATCT AGAAACTAGG
1033 ATAATCACAA ACAGGCCAAT GCTGCCATAT GCAAAGCACT TTGGTTTGCC TGGCCACCCC
1093 TCGTCGAGCA TGTGGGCTCT TCAGAGCACC TGATGAGGTG GGTACAGTTA GCCACACTTC
1153 ACAGGTGAAG AGGTGAGGCA CAGGTCCCAG GTCAGGCTGG CCGGAGCTCT GTTTATTACG
1213 TCTCACAGCT TTGAGTCCTG CTCTCAACCA GAGAGGCCCT TTACCAAGAA GAAAGGATTG
1273 GGACCCAGAA TCAGGTCACT GGCTGAGGTA GAGAGGAAGC CGGGTTGTTC CCAAGGGTAG
1333 CTGCTCCTGC AGGACTCTGA GCAGGTCACC AGCTAATGGA GGAAAGGCTC TAGGGAAAGA
1393 CCCTTCTGGT CTCAGACTCA GAGCGAGTTA GCTGCAAGGT GTTCCGTCTC TTGAAACTTC
1453 TACCTAGGTG CTATGGTAGC CACTAGTCTC AGGTGGCTAT TTAAATTTAT ACTTAAATGA
1513 ATGAAAATAG AAGAAAATTT AAAATCCAGA CCCTTGGTCA CACTATCCAC ATTTAAAGAG
1573 GTCAATAGCC ACATGTGGTT AGTGGCCACC CTATTGGGCA GTGCAGCTAC AGAACATTTT
1633 TGCATCCAG AAAGTTCTTT TGGATGTTGC TGCTCTACAG CATGCTTTGC TGAAACAGAA
1693 GTGCCTTCCC TGGGAATCTC AGATGGGAAG CAAGTAAGGA GGGGAGTCAA ATGTGGGCTC
1753 ACTGCTCACC AGCTGTGAGG GTTGGGCCTG CCTCTTAACC ATTGTCAGCC TCAGTCTTCT
1813 CATCCATGCA TGCCGTGGGT ATACTAAAAT ACTATACCCC TGAAGAGCT GGATGCAAAT
1873 TTGACAAGTT CTGGGGGACA CAGGAAGGTG CCAAGCACAA GGCTGGGCAC ATGGTGGCTG
1933 TGCACATACAG CTGAGTCCTT TTCCTTTTCA GAATCTGGGA TGTTAACCAG AAGACCTTCT
1993 ATCTGAGGAA CAACCAACTA GTTGCTGGAT ACTTGCAAGG ACCAAATGTC AATTTAGAAG
2053 GTGAGTGTT GCCAGGAAAG CCAATGTATC TGGGCATCAC GTCACCTTGC CCGTCTGTCT
2113 GCAGCAGCAT GGCCTGCCTG CACAAACCCT AGGTGCAATG TCCTAATCCT TGTTCGGTCT
2173 TTGTATTCAA GTTTGAAGCT GGGAGGGCCT GGCTACTGAA GGGCACATAT GAGGGTAGCC
2233 TGAAGAGGGT GTGGAGAGGT AGAGTCTAGG TCAGAGGTCA GTGCCTATAG GCAAGTGGTC
2293 CCAGGGCCAC AGCTGGGAAG GGCAAATACC AGAAGGCAAG GTTGACCATT CCCTTCCTCA
2353 AGTGCCTATT AAGGCTCCAT GTTCCTATGT TGTTCAAACC CTAACTCAAT CCCAAATTA
2413 TCCACCATGT ATAAGGTTGA GCTATGTCTC TTATTCCTGG ACACCATACT CAGCCATATC
2473 TGGTCCACAC ATTAACAGCT GGATGACCTT GAAGAAGCTT CACCCACTCT GTTCCTCAGC
2533 TTTCCCTTCA GTGGGATGAT ATCAACTGGA CAACAGGATG TGCGATTCTT TTAGTTCCAG
2593 CCTTCCAGGA TGTTTTTCACT CCCCTGTTTG TTGTTGTAGG ATGGTATTAC CTCCACCTTC
2653 CCACCTTCCC TATGCCCTGG TTCTGTCTCC TGTGCCCTCG TCTGAAAGTG GATGAGACCT
2713 ACAATTCCTG TCCTGGTAGT TCTCCTAATG AACACACTGA AGCACGAGGA AGCTGAGATT
2773 TTTGTTGCTA CATGAGAGCA TGGAGGCCTC TTAGGGAGAG AGGAGGTTC A GAGACTCCTA
2833 GGCTCCTGGT GGAGCCCCAC TCATGGCCTT GTTCATTTTC CCTGCCCCCT AGCAACACTC
2893 CTATTGACCT GGAGCACAGG TATCCTGGGG AAAGTGAGGG AAATATGGAC ATCACATGGA
2953 ACAACATCCA GGAGACTCAG GCCTCTAGGA GTAAGTGGGT AGTGTGCATC CTGGGGAAAG
3013 TGAGGGAAAT ATGGACATCA CATGGAACAA CATCCAGGAG ACTCAGGCCT CTAGGAGTAA
3073 CTGGGTAGTG TGCATCCTGG GGAAAGTGAG GGAAATATGG ACATCACATG GAACAACATC
3133 CAGGAGACTC AGGCCTCTAG GAGTAACTGG GTAGTGTGCA TCCTGGGGAA AGTGAGGGAA
3193 ATATGGACAT CACATGGAAC AACATCCAGG AGACTCAGGC CTCTAGGAGT AACTGGGTAG
3253 TGTGCTTGGT TTAATCTTCT ATTTACCTGC AGACCAGGAA GATGAGACCT CTCTGCCCTT
3313 CTGACCTCGG GATTTTAGTT TTGTGGGGAC CAGGGGAGAT AGAAAAATAC CCGGGGTCTC

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FIG. 3B

3373	TTCATTATTG	CTGCTTCCTC	TTCTATTAAC	CTGACCCCTC	CCTCTGTTCT	TCCCCAGAAA
3433	AGATAGATGT	GGTACCCATT	GAGCCTCATG	CTCTGTTCTT	GGGAATCCAT	GGAGGGAAGA
3493	TGTGCCTGTC	CTGTGTCAAG	TCTGGTGATG	AGACCAGACT	CCAGCTGGAG	GTAAAAACAT
3553	GCTTTGGATC	TCAAATCACC	CCAAAACCCA	GTGGCTTGAA	ACAACCAAAA	TTTTTTCTTA
3613	TGATTCTGTG	GGTTGACCAG	GATTAGCTGG	GTAGTTCTGT	TCCATGTGGT	GGAACATGCT
3673	GGGGTCACTT	TGGAAGCTGC	ATTCAGCAGA	GTGCCAGGCT	TGCGCTGGGC	ATCCAAGGTG
3733	GTCCCTCATC	CTCCAGGCTC	TCTTTCCATG	TGATCTCTCA	GTGTTTAAGA	GTTAGTTGGA
3793	GCTTCCTTAC	AGCATGGCGG	CTGACTTCCA	AAAGGGATTA	TTCCAAAAAG	AGCCTCAACA
3853	TGCAGGCGCT	TATTATGACT	TCTGCTTGCA	TCATCCTATT	GGCCAAAGCC	AGTCACGTGG
3913	CTAAGTCTAG	CCCCCTGTGA	GAGGAGACTG	CATAAGAGTG	TGAACACCAG	GAGACACGGT
3973	CACTGGGGGC	CACCACTGTA	ACCATCTACC	ACAGGACCTG	AATCTCTGTG	TGCTACTCCC
4033	TTGCTCAAGG	GCCCCCTAC	CCACGCAGAC	CTGCTGTCTT	CTAGCAAAGC	CCATCCTCAG
4093	GACCTTTCTC	TTCCAATCCT	TATTGACTCA	AATTGATTAG	TTGGTGCTCC	ACCCAGAGCC
4153	CTGTGCTCCT	TTATCTCATG	TAATGTTAAT	GGGTTTCCCA	GCCCTGGGAA	AACATGGCTT
4213	TGTCTCAGGG	GCTTGCTGGA	TGCAACCTTA	ACCTCAATGT	GAGTGGCCAT	ACTGTGGCAC
4273	TGTCCCATCC	CTCACCAGGG	ACACTGTTCT	GGAGGGTGAC	TGCCTGTTCT	GTGAGGAGTG
4333	GGGATGGCTA	GGACATTGCA	TGGAACACAC	CACCAACCCA	TCTTCTCAGA	GCTCAAACCC
4393	TGACAGAGAA	CCAGCTCCAC	AGGCCTTGGC	TTCTGCTGAT	GGTGCCGTGT	ATTTACCAGA
4453	CTTAGTGGTC	CAAGGCCAGA	GTTGGCAGATT	TCCCAAAGTC	AAGGTGTGAC	AGTGGGACAG
4513	CCTCTTTGTG	TCTTTGCTGT	CCTAAGAAAC	CTGGGCCAGG	CCAGGCGCAG	TGGCTCACGC
4573	CTTGTAATCC	CAGCACTTTG	AGAGGCCAAG	GTGGGCAGAT	CACGAGGTCA	GGAGTTTGAG
4633	ACCAGCCTGG	CCAACATTGG	TGAAACCCTG	TCTCTATTAA	AAATAGAAAA	CATTAGACAG
4693	GTGTGGTGGT	GCATGCCTGT	AATCCCAGCT	ACTCAGGAGG	CTGAGGCAGG	AGAATCGCTT
4753	GAACCCAGGA	GGTGGAGGTT	GCAGTGAGCC	GAGATTGTGC	CACTGCACTC	CAGCCTAGGC
4813	GACAGAGCAA	GACTCCGTCT	CGGGAAAATT	AATTAATAAA	TAAATAAACC	TAGGTCCAG
4873	AGTCCCACAG	AATGGCAGAC	AGGAGCACCT	GGGGGCTTTT	AGGGTATGGC	ATTTCCCCTG
4933	TACTAACTCT	GGGCTGTCCA	GAGGCGATTT	CATGGCGTGG	AGTGGAGAGG	GAGGCAGCAC
4993	AGGACTTCCT	AGGCCTCAGC	TCTCACCTGC	CCATCTTTTG	ATTTCCAGGC	AGTTAACATC
5053	ACTGACCTGA	GCGAGAACAG	AAAGCAGGAC	AAGCGCTTCG	CCTTCATCCG	CTCAGACAGT
5113	GGCCCCACCA	CCAGTTTTGA	GTCTGCCGCC	TGCCCCGGTT	GGTTCCTCTG	CACAGCGATG
5173	GAAGCTGACC	AGCCCGTCAG	CCTCACCAAT	ATGCCTGACG	AAGGCGTCAT	GGTCACCAAA
5233	TTCTACTTCC	AGGAGGACGA	GTAGTACTGC	CCAGGCCTGC	CTGTTCCCAT	TCTTGCAATG
5293	CAAGGACTGC	AGGGACTGCC	AGTCCCCCTG	CCCCAGGGCT	CCCGGCTATG	GGGGCACTGA
5353	GGACCAGCCA	TTGAGGGGTG	GACCCCTCAGA	AGGCGTCACA	ACAACCTGGT	CACAGGACTC
5413	TGCCTCCTCT	TCAACTGACC	AGCCTCCATG	CTGCCTCCAG	AATGGTCTTT	CTAATGTGTG
5473	AATCAGAGCA	CAGCAGCCCC	TGCACAAAGC	CCTTCCATGT	CGCCTCTGCA	TTCAGGATCA
5533	AACCCCGACC	ACCTGCCCAA	CCTGCTCTCC	TCTTGCCACT	GCCTCTTCCT	CCCTCATTCC
5593	ACCTTCCCAT	GCCCTGGATC	CATCAGGCCA	CTTGATGACC	CCCAACCAAG	TGGCTCCAC
5653	ACCCTGTTTT	ACAAAAAAGA	AAAGACCAGT	CCATGAGGGA	GGTTTTTAAG	GGTTTGTGGA
5713	AAATGAAAAT	TAGGATTTCA	TGATTTTTTT	TTTTCAGTCC	CCGTGAAGGA	GAGCCCTTCA
5773	TTTGGAGATT	ATGTTCTTTC	GGGGAGAGGC	TGAGGACTTA	AAATATTCCCT	GCATTTGTGA
5833	AATGATGGTG	AAAGTAAGTG	GTAGCTTTTC	CCTTCTTTTT	CTTCTTTTTT	TGTGATGTCC
5893	CAACTTGTA	AAATTAAAAG	TTATGGTACT	ATGTTAGCCC	CATAATTTTT	TTTTTCTCTT
5953	TAAAACACTT	CCATAATCTG	GACTCCTCTG	TCCAGGCACT	GCTGCCCAGC	CTCCAAGCTC
6013	CATCTCCACT	CCAGATTTTT	TACAGCTGCC	TGCAGTACTT	TACCTCCTAT	CAGAAGTTTC
6073	TCAGCTCCCA	AGGCTCTGAG	CAAATGTGGC	TCCTGGGGGT	TCTTTCTTCC	TCTGCTGAAG
6133	GAATAAATTG	CTCCTTGACA	TTGTAGAGCT	TCTGGCACTT	GGAGACTTGT	ATGAAAGATG
6193	GCTGTGCCTC	TGCCTGTCTC	CCCACCAGGC	TGGGAGCTCT	GCAGAGCAGG	AAACATGACT
6253	CGTATATGTC	TCAGGTCCCT	GCAGGGCCAA	GCACCTAGCC	TCGCTCTTGG	CAGGTACTCA
6313	GCGAATGAAT	GCTGTATATG	TTGGGTGCAA	AGTTCCCTAC	TTCTGTGAC	TTCAGCTCTG
6373	TTTTACAATA	AAATCTTGAA	AATGCCTATA	TTGTTGACTA	TGTCCTTGGC	CTTGACAGGC
6433	TTTGGGTATA	GAGTGCTGAG	GAAACTGAAA	GACCAATGTG	TYTTYCTTAC	CCCAGAGGCT
6493	GGCGCCTGGC	CTCTTCTCTG	AGAGTTCTTT	TCTTCCTTCA	GCCTCACTCT	CCCTGGATAA
6553	CATGAGAGCA	AATCTCTCTG	CGGGG			

FIG. 3C

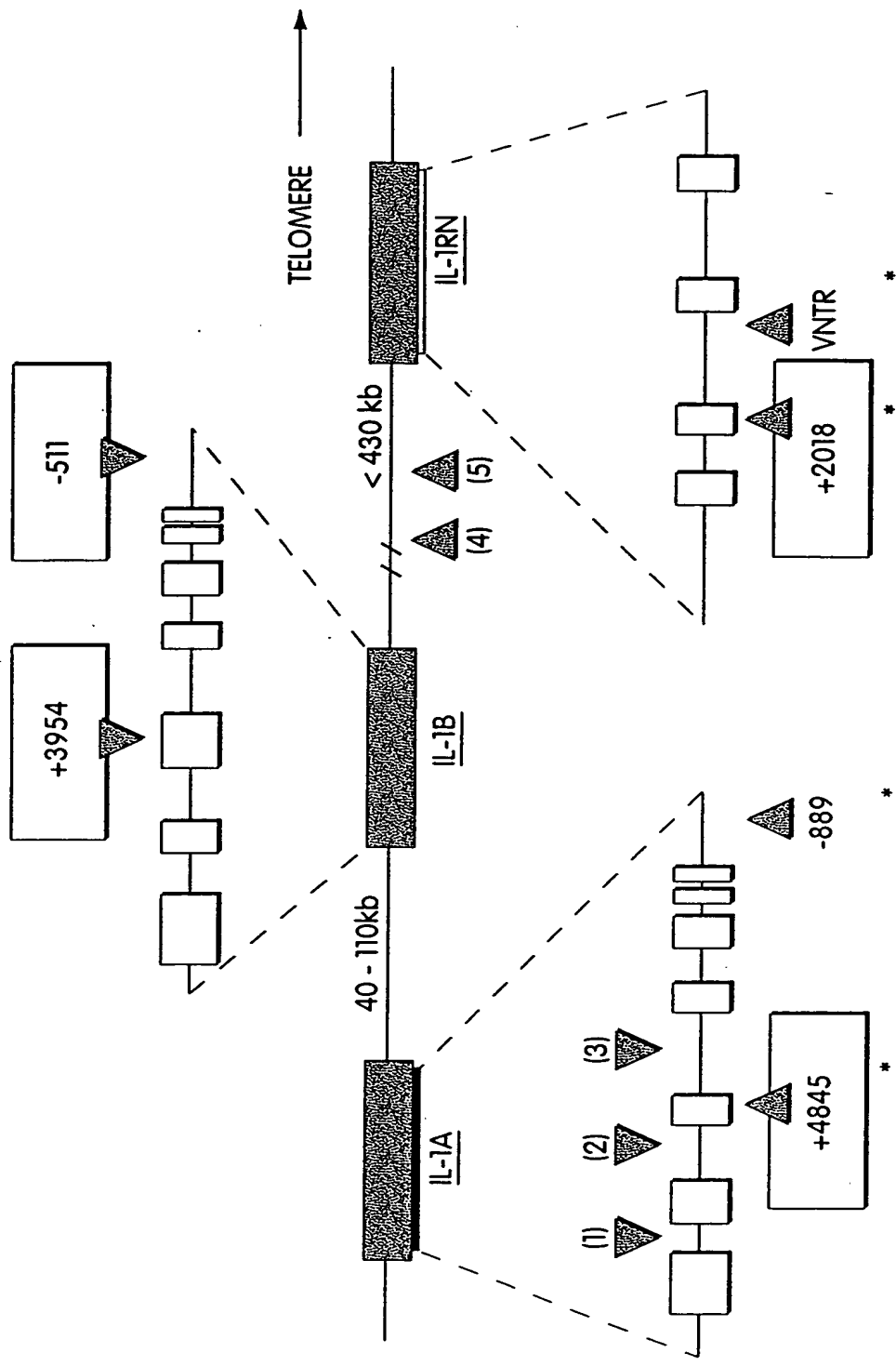


Fig. 4

	A(+4845)	B(+3954)	B(-511)	RN(+2018)
A(+4845)	----- ↑	0.804 ↑	-0.264 ↑	-0.207 ↑
B(+3954)	0.804 ↑	----- ↑	-0.617 ↑	-0.439 ↑
B(-511)	-0.264 ↑	-0.617 ↑	----- ↑	0.448 ↑
RN(+2018)	-0.207 ↑	-0.434 ↑	0.448 ↑	----- ↑

Fig. 5

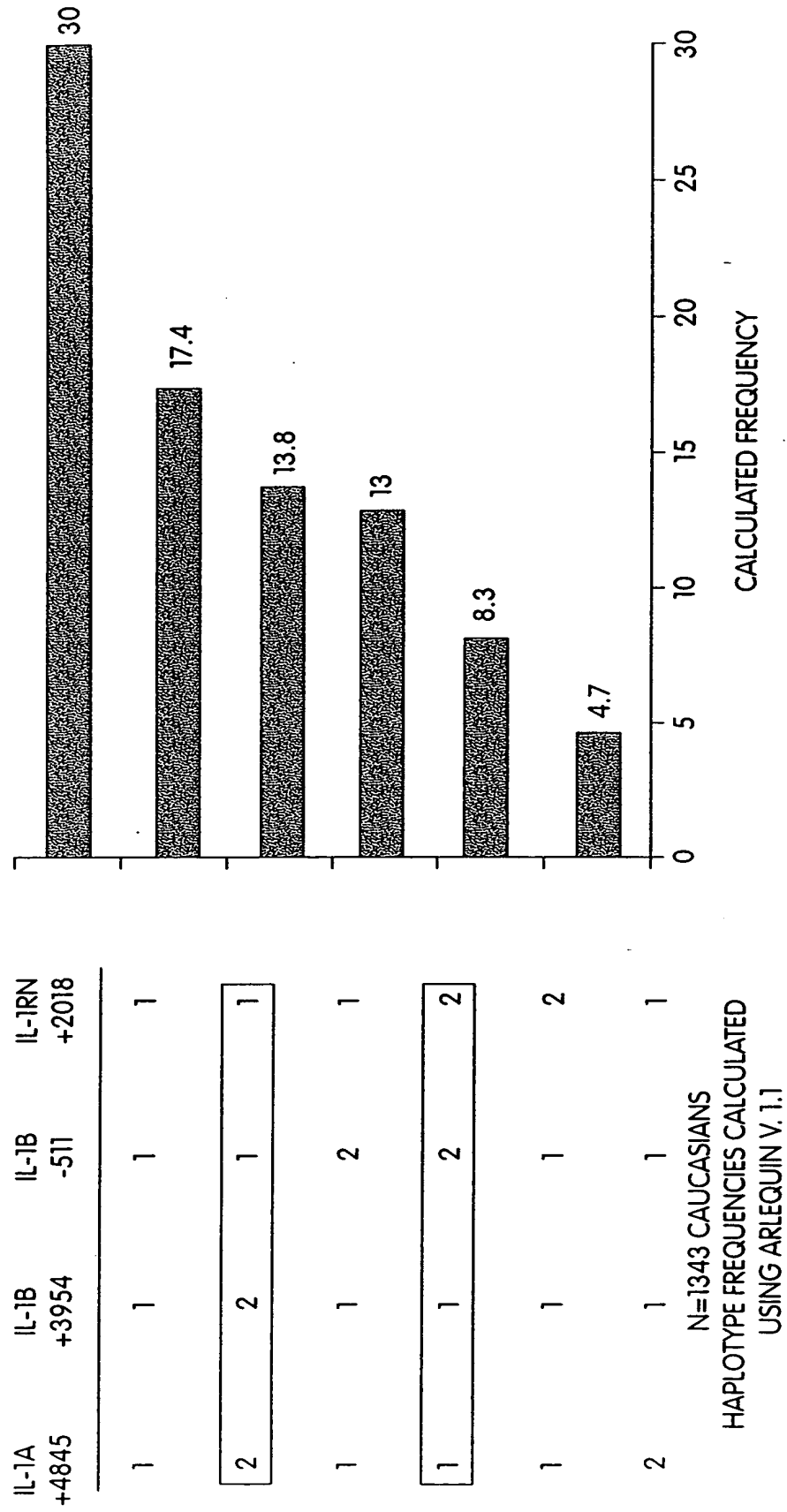


Fig. 6

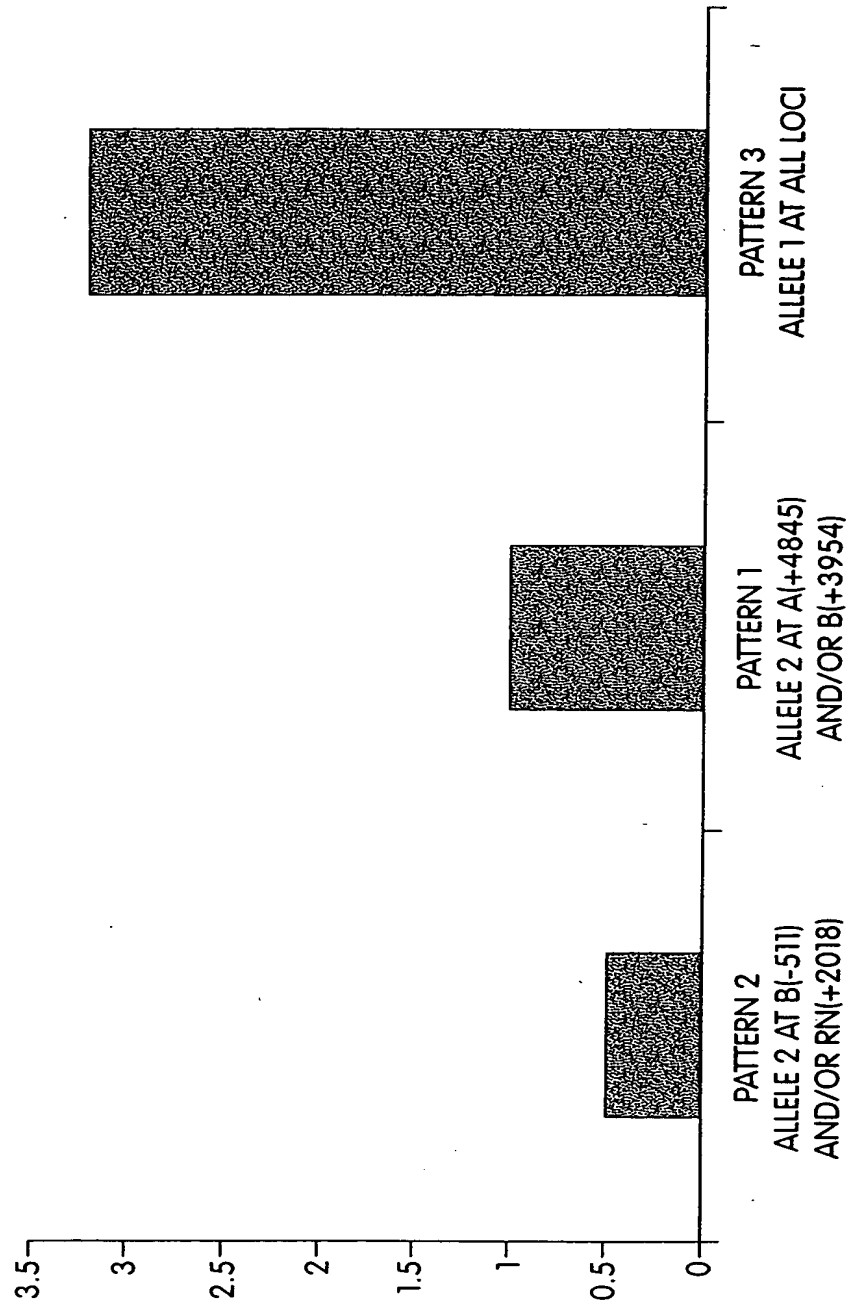


Fig. 7

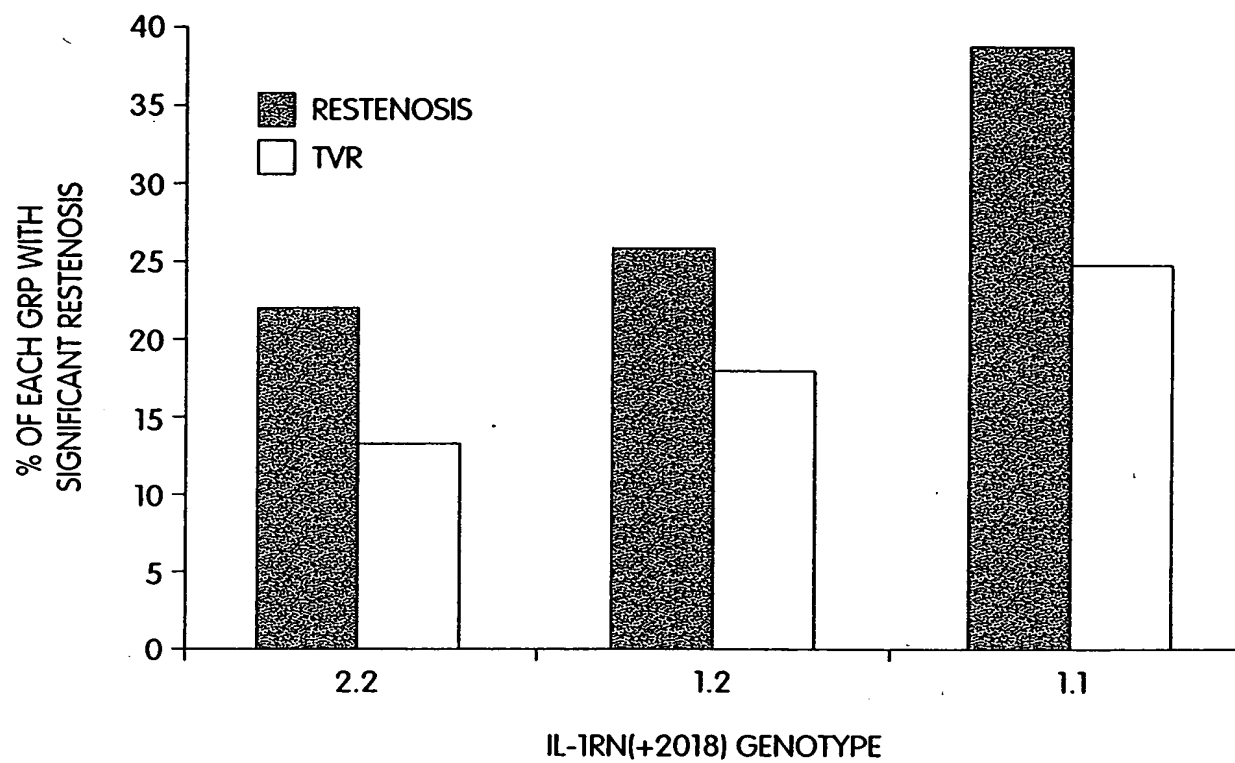


Fig. 8

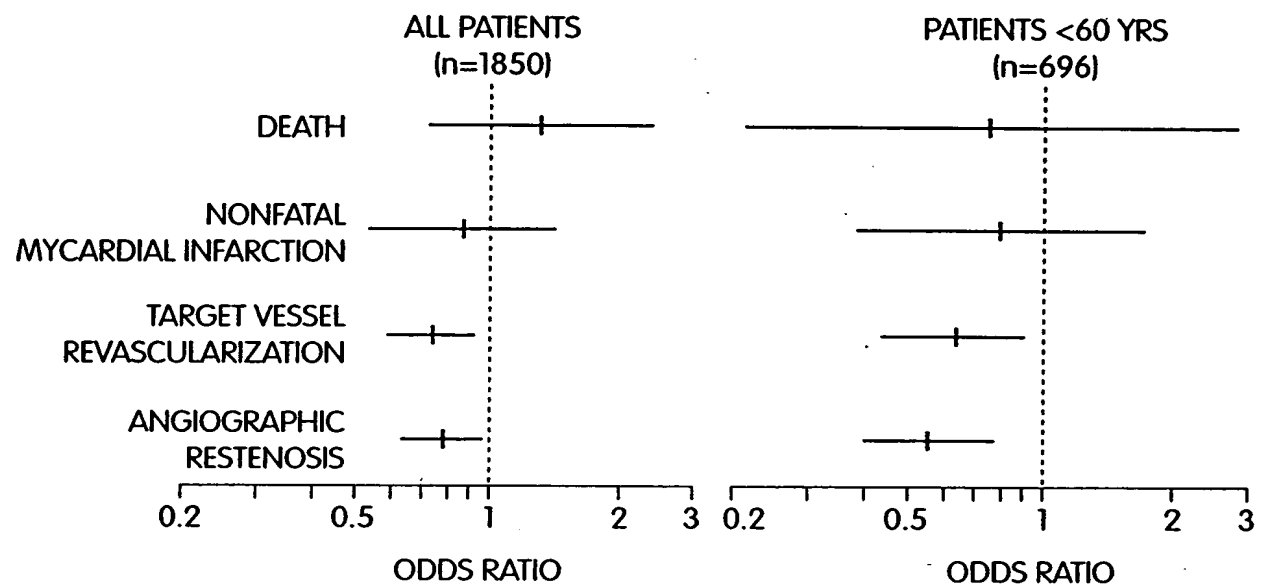


Fig. 9

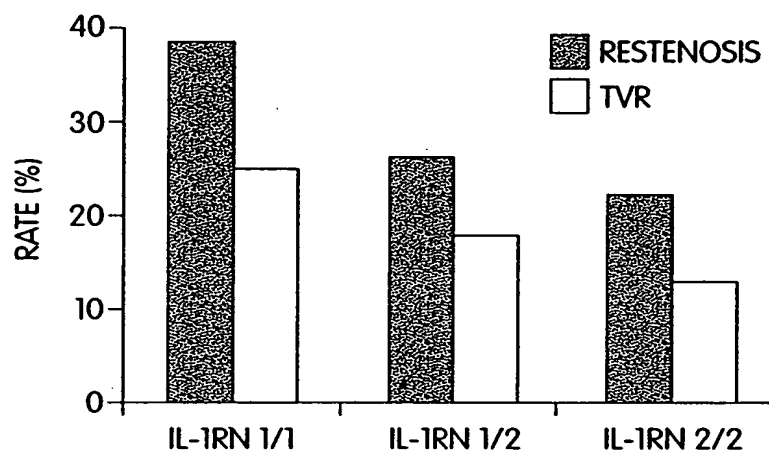


Fig. 10